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FILE LAST UPDATED: 8 Jan 2008 (20080108/ED)

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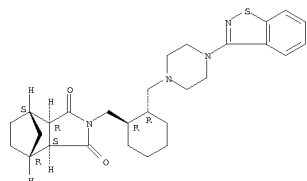
This file contains CAS Registry Numbers for easy and accurate substance identification.

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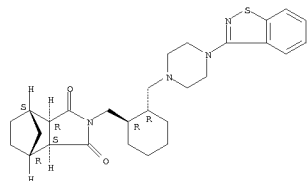
L18 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN
 AN 2007:134899 HCAPLUS
 TI Lurasidone reverses MK-801-induced impairment of learning and memory in the Morris water maze and radial-arm maze tests in rats
 AU Enomoto, Takeshi; Ishibashi, Tadashi; Tokuda, Kumiko; Ishiyama, Takeo; Toma, Satoko; Ito, Akira
 CS Discovery Pharmacology II, Pharmacology Research Laboratories, Dainippon Sumitomo Pharma Co., Ltd., 3-1-98, Kasugade Naka, Konohana-ku, Osaka, 554-0022, Japan
 SO Behavioural Brain Research (2008), 186(2), 197-207
 CODEN: BBREDI; ISSN: 0166-4328
 PB Elsevier B.V.
 DT Journal
 LA English
 AB We have previously shown that lurasidone, a novel atypical antipsychotic, potentially reverses learning impairment induced by the N-methyl--aspartate receptor antagonist MK-801 in the rat passive avoidance test. However, the effects of lurasidone in other learning and memory tasks remain to be investigated. We investigated the effects of lurasidone and other marketed antipsychotics (risperidone, clozapine, aripiprazole, and haloperidol) on MK-801-induced impairment of learning and memory in the Morris water maze (MWM) and radial-arm maze (RAM) tests in rats. Learning and memory impairment in the MWM test, as measured by escape latency, escape distance, and diving behavior, and in the RAM test, as measured by reference and working memory errors, was induced by MK-801 (i.p.) at doses of 0.15 and 0.2 mg/kg, resp. In the MWM test, lurasidone (1 and 3 mg/kg p.o.) potentially reversed MK-801-induced learning impairment. In the RAM test, lurasidone (1 and 3 mg/kg p.o.) potentially reversed MK-801-induced reference memory impairment and moderately but not significantly attenuated MK-801-induced working memory impairment. Risperidone (0.3 and 1 mg/kg p.o.), clozapine (3 and 10 mg/kg p.o.), aripiprazole (0.3 and 1 mg/kg p.o.), and haloperidol (0.3 and 1 mg/kg p.o.) did not reverse MK-801-induced impairment of learning and memory in both tasks. Lurasidone, but not the other antipsychotics tested in this study, reverses MK-801-induced impairment of learning and memory in both the MWM test and the RAM test. These results suggest that lurasidone would be more effective in treating schizophrenics with cognitive dysfunction than current antipsychotics.

L18 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN
 AN 2007:107633 HCAPLUS
 DN 147:1440137
 TI Lurasidone (SM-13496), a novel atypical antipsychotic drug, reverses MK-801-induced impairment of learning and memory in the rat passive-avoidance test
 AU Ishiyama, Takeo; Tokuda, Kumiko; Ishibashi, Tadashi; Ito, Akira; Toma, Satoko; Ohno, Yukihiko
 CS Pharmacology Research Laboratories, Dainippon Sumitomo Pharma Co. Ltd., Suita, Osaka, 564-0053, Japan
 SO European Journal of Pharmacology (2007), 572(2-3), 160-170
 CODEN: EJPHAZ; ISSN: 0014-2999
 PB Elsevier B.V.
 DT Journal
 LA English
 AB Lurasidone (SM-13496) is a novel atypical antipsychotic with high affinities to dopamine D2, serotonin 5-HT7, 5-HT2A, 5-HT1A receptors and $\alpha 2C$ adrenoceptor. In this study, the effects of lurasidone on the rat passive-avoidance response and its impairment by the N-methyl--aspartate (NMDA) receptor antagonist MK-801 (dizocilpine) were evaluated and compared with those of other antipsychotics. The passive-avoidance response was examined by measuring the step-through latency, 1 day after the animals received foot-shock training. When given before the training session, lurasidone did not affect the passive-avoidance response at any dose tested (1-30 mg/kg, p.o.). All the other atypical antipsychotics examined (i.e., risperidone, olanzapine, quetiapine, clozapine and aripiprazole), however, significantly reduced the step-through latency at relatively high doses. A pre-training administration of lurasidone significantly and dose-dependently reversed the MK-801-induced impairment of the passive-avoidance response. At doses lower than those that affected the passive-avoidance response, risperidone, quetiapine, and clozapine partially reduced the MK-801-induced impairment, whereas haloperidol, olanzapine, and aripiprazole were inactive. In addition, the post-training administration of lurasidone was as effective in countering the MK-801 effect as the pre-training administration, suggesting that lurasidone worked, at least in part, by restoring the memory consolidation process disrupted by MK-801. These results suggest that lurasidone is superior to other antipsychotics in improving the MK-801-induced memory impairment and may be clin. useful for treating cognitive impairments in schizophrenia.
 TI 367514-87-2, Lurasidone
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (SM-13496; lurasidone (SM-13496), a novel atypical antipsychotic drug, reverses MK-801-induced impairment of learning and memory in rat passive-avoidance test)
 RN 367514-87-2 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)- (CA INDEX NAME)
 Absolute stereochemistry.

L18 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



IT 367514-88-3, SM-13496
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (lurasidone (SM-13496), a novel atypical antipsychotic drug, reverses MK-801-induced impairment of learning and memory in rat passive-avoidance test)
 RN 367514-88-3 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)
 Absolute stereochemistry.



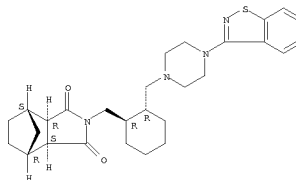
● HCl

RE.CNT 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN
 AN 2006:1337840 HCAPLUS
 DN 146:68724
 TI Pharmaceutical solutions containing lurasidone
 IN Otsda, Kazuya; Nakamura, Mayumi; Ariyama, Teruko; Nakagawa, Takashi
 PA Dainippon Sumitomo Pharma Co., Ltd., Japan
 SO PCT Int. Appl., 23pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

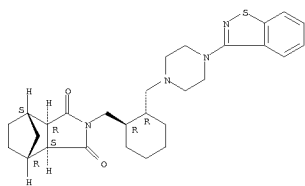
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO/2006/134864	A1	20061221	WO 2006-1331739	20060612

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GR, GM, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, ME, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GD, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MS, NA, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AS, BY, KG, KZ, MD, RU, TJ, TM
 PRAI 2005UP-017275 A 20050613
 AB A solution-type preparation comprises lurasidone or its acid addition salts, preferably hydrochloride salt, as an active ingredient and at least one substance selected from benzyl alc., N,N-dimethylacetamide, lactic acid and propylene glycol. The solns. comprise high concentration of lurasidone for the treatment of mental disorders.
 IT 367514-87-2, Lurasidone 367514-88-3,
 Lurasidone hydrochloride
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmaceutical solns. containing lurasidone)
 RN 367514-87-2 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)- (CA INDEX NAME)
 Absolute stereochemistry.



RN 367514-88-3 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)
 Absolute stereochemistry.

L18 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



● HCl

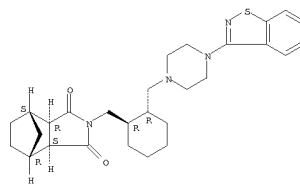
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN

AN 2006:125571 HCAPLUS
DN 146:13212
TI Oral pharmaceutical compositions of lurasidone
IN Fujihara, Kazuyuki
PA Dainippon Sumitomo Pharma Co., Ltd., Japan
SO PCT Int. Appl., 42pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2006126681	A1	20061130	WO 2006-JP310571	20060526
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, ME, NA, NG, NI, NO, NE, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
FW:	AF, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LJ, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, ME, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU2006250340	A1	20061130	2006AU-0250340	20060526
PRAI 2005JP-0153508	A	20050526		
WO 2006-JP310571	W	20060526		
AB	A preparation for oral administration comprises a pregelatinized starch comprising N-[4-[(1,2-benzisothiazol-3-yl)-1-piperazinyl]-(2R,3R)-2,3-tetramethylene-butyl]-(1'R,2'S,3'R,4'S)-2,3-bicyclo[2.2.1]heptanedicarboxylic acid hydrochloride (lurasidone hydrochloride) as an active ingredient; a water-soluble excipient; and a water-soluble polymeric binder, where the preparation exhibits an invariant level of elution behavior even when the content of its active ingredient is varied. For example, tablets were formulated containing lurasidone 80, mannitol 144, pregelatinized starch 80, croscarmellose sodium 4, hydroxypropyl Me cellulose 8, and Mg stearate 4 mg per tablet and film coated with a composition containing hydroxypropyl Me cellulose, titania, polyethylene glycol, and carnauba wax.			
IT	367514-87-2, Lurasidone 367514-88-3, Lurasidone hydrochloride RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (oral comps. of lurasidone with improved dissoln. profile)			
RN	367514-87-2 HCAPLUS			
CN	4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)- (CA INDEX NAME)			

Absolute stereochemistry.

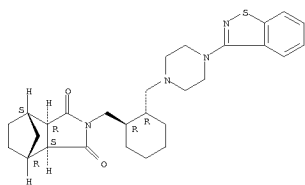


RN 367514-88-3 HCAPLUS

L18 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.



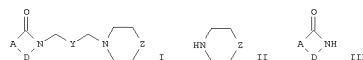
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RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN

AN 2006:1627401 HCAPLUS
DN 145:83396
TI Preparation of imides as intermediates for psychotropic agents
IN Ae, Nobuyuki; Bando, Hisashi
PA Sumitomo Chemical Co., Ltd., Japan; Dainippon Pharmaceutical Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JXXXXF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP2006169155	A	20060629	2004JP-0362562	20041215
PRAI 2004JP-0362562		20041215		
OS CASREACT 145:83396; MARPAT 145:83396				
GI				



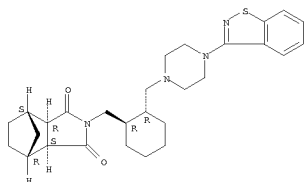
AB The imides I (A = C2-4 alkylene, C2-4 alkenylene; D = CO, SO2; Y = Cl-2 alkylene; Z = (substituted) CH2, (substituted) NH), useful for psychotropic agents for treatment of schizophrenia, senile psychosis, manic-depressive psychosis, neuropathy, etc. (no data), are prepared by treatment of cyclic amines II (Z = same as above) with Y(CH2X)2 (X = anion-generating group; Y = same as above) in the presence of K2CO3 having sp. surface area <1.8 m2/g, and treatment of the resulting spiro quaternary ammonium salts with imides III (A, D = same as above) in the presence of solid inorg. bases. Thus, (1R,2R)-1,2-bis(methanesulfonyl)oxymethyl]cyclohexane was treated with 4-(1,2-benzisothiazol-3-yl)piperazine in the presence of K2CO3 (sp. surface area 0.6 m2/g) and Bu4N+HSO4-, and treated with hexahydro-(3aS,4R,7S,7aR)-4,7-methano-1H-isoindole-1,3(2H)-dione in the presence of K2CO3 and H2O to give 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-(3aS,4R,7S,7aR)-4,7-methano-1H-isoindole-1,3(2H)-dione with yield of carbonic acid-derived byproduct 1.54.

IT 367514-87-2P, 2-[[[(1R,2R)-2-[[4-(1,2-Benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-(3aS,4R,7S,7aR)-4,7-methano-1H-isoindole-1,3(2H)-dione
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(Preparation of imides as intermediates for psychotropic agents from cyclic amines via spiro quaternary ammonium salts by using K2CO3 with predetd. sp. surface area)

RN 367514-87-2 HCAPLUS
CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.

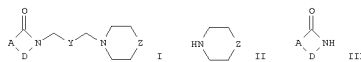
L18 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



L18 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN

AN 2006:627400 HCAPLUS
 DN 145:83395
 TI Preparation of imides as intermediates for psychotropic agents
 IN Ae, Nobuyuki; Bando, Hisashi
 PA Sumitomo Chemical Co., Ltd., Japan; Dainippon Pharmaceutical Co., Ltd.
 SO Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKKXAP
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP200618254	A	20060429	2004JP-0362561	20041215
PRAI 2004JP-0362561		20041215		
OS MARPAT 145:83395				
GI				



AB The imides I [A = C2-4 alkylene, C2-4 alkenylene; D = CO, SO₂; Y = Cl-2 alkylene; Z = (substituted) CH₂, (substituted) NH], useful for psychotropic agents for treatment of schizophrenia, senile psychosis, manic-depressive psychosis, neuropathy, etc. (no data), are prepared by treatment of cyclic amines II (Z = same as above) with Y(CH₂X)₂ (X = anion-generating group; Y = same as above) in the presence of K₂CO₃ having average particle size (504D) 5200 μm, and treatment of the resulting spiro quaternary ammonium salts with imides III (A, D = same as above) in the presence of solid inorg. bases. Thus, (1R,2R)-1,2-bis(methanesulfonyloxymethyl)cyclohexane was treated with 4-(1,2-benzisothiazol-3-yl)piperazine in the presence of K₂CO₃ (504D 11 μm) and Bu₄NHSO₄, and treated with hexahydro-(3aR,4R,7S,7aR)-4,7-methano-1H-isindole-1,3(2H)-dione in the presence of K₂CO₃ and H₂O to give 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-(3aR,4R,7S,7aR)-4,7-methano-1H-isindole-1,3(2H)-dione].

II 367514-87-2P, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-(3aR,4R,7S,7aR)-4,7-methano-1H-isindole-1,3(2H)-dione]

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

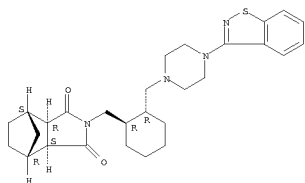
(preparation of imides as intermediates for psychotropic agents from cyclic amines via spiro quaternary ammonium salts by using K₂CO₃ with predetd. sp. surface area)

RN 367514-87-2 HCAPLUS

CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)- (CA INDEX NAME)]

Absolute stereochemistry.

L18 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



L18 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN

AN 2005:962496 HCAPLUS
 DN 143:24237
 TI Method of in vivo screening of therapeutic agent for memory/learning dysfunction by schizophrenia
 IN Ishiyama, Takeo
 PA Sumitomo Pharmaceuticals Co., Ltd., Japan
 SO PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2005080976	A1	20050901	2005WO-JP02838	20050216
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ, DE, DK, DM, DO, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KS, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
WM: BW, GH, GM, KE, LS, MW, ME, NA, SD, SL, SE, TZ, UG, ZM, ZW, AM, AE, BY, KG, KE, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, CA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP----1726952	A1	20061129	2005EP-0710541	20050216
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
US2007160537	A1	20070712	2006US-0589804	20060817
PRAI 2004JP-044986	A	20040220		
2005WO-JP02838	W	20050216		

AB A method of evaluating memory/learning functions with the use of a model with glutamic acid N-methyl-D-aspartate (NMDA) type receptor dysfunction as an animal model of schizophrenia and with the use of reference memory problems, wherein there has been found concrete means for detecting any difference in activity between typical antipsychotic drug and atypical antipsychotic drug. There is provided an in vivo animal model for screening of an ameliorating agent for cognitive dysfunction by schizophrenia.

IT 367514-87-2, Lurasidone

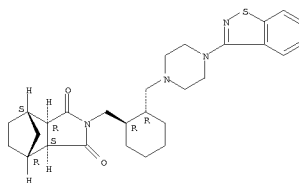
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USRS (Uses)

(method of in vivo screening of therapeutic agent for memory/learning dysfunction by schizophrenia)

RN 367514-87-2 HCAPLUS

CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)- (CA INDEX NAME)]

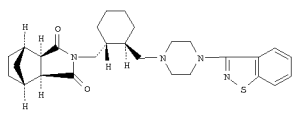
Absolute stereochemistry.



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2005:99501 HCAPLUS
DN 142:198101
TI Process for producing benzisothiazolylpiperazinylmethylcyclohexylmethylbic
cycloheptanedicarboxyimide hydrochloride
IN Kakiya, Yuzo; Oda, Mayumi
PA Sumitomo Pharmaceuticals Co., Ltd., Japan
SO PCT Int. Appl., 18 pp.
CODEN: PIXX22
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2005009999	A1	20050203	2004WO-JP11035	20040727
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TE, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
FW: BW, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TE, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
AE, BY, BG, CZ, DE, DK, ES, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU2004259305	A1	20050203	2004AU-0259305	20040727
CA-----2538265	A1	20050203	2004CA-2538265	20040727
EP-----2652848	A1	20050203	2004EP-0748182	20040727
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN-----1832946	A	20060913	CN 2004-80022168	20040727
BR2004013081	A	20061003	2004BR-0013081	20040727
US2006194970	A1	20060831	2006US-0565105	20060119
MX2006PA01128	A	20060907	2006MX-PA01128	20060127
IN2006CN00349	A	20070706	2006IN-CN00349	20060127
PRAI 2003JP-0281860	A	20030729	2006IN-CN00349	20060127
2004WO-JP11035	W	20040727		
OS CASREACT 142:198101				
GI				



AB Claimed is a process for producing the title compound I.HCl or enantiomers thereof by treating I or enantiomers thereof with an aqueous hydrochloric acid solution in a hydrophilic solvent and crystallizing I.HCl or enantiomers thereof. I.HCl is a psychotropic agent (no data). Thus, I in acetone was heated under reflux; an aqueous HCl solution was added over 15 min to the solution of I in acetone at 55°C; the resulting solution was stirred at 60°C for 1 h; said solution was cooled to 0°C and stirred at 0°C for 1 h to give I.HCl.

IT 367514-88-3P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(Crystallization of benzisothiazolylpiperazinylmethylcyclohexylmethylcycloheptanedicarboxyimide hydrochloride)
RN 367514-88-3 HCAPLUS
CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-

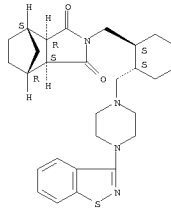
L18 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2004:1154706 HCAPLUS
DN 142:69202
TI Therapeutic agent for senile dementia
IN Ohno, Yukihiro; Ishiyama, Takeo
PA Sumitomo Pharmaceuticals Co., Ltd., Japan
SO PCT Int. Appl., 29 pp.
CODEN: PIXX22
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2004113333	A1	20041229	2004WO-JP09095	20040622
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TE, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
FW: BW, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TE, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
AE, BY, BG, CZ, DE, DK, ES, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU2004249621	A1	20041229	2004AU-0249621	20040622
CA-----2531980	A1	20041229	2004CA-2531980	20040622
EP-----1637230	A1	20060322	2004EP-0746564	20040622
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN-----1826328	A	20060830	CN 2004-80017534	20040622
US2006142276	A1	20060629	2005US-0562039	20051222
IN2005CN03485	A	20070608	2005IN-CN03485	20051222
PRAI 2003JP-0178386	A	20030623		
2004WO-JP09095	W	20040622		
OS MARPAT 142:69202				

AB A therapeutic/preventive agent for cognition dysfunctions contains as an active ingredient an imide derivative (Markush structure given). The bioactivity of the imide derivative of this invention was demonstrated.

IT 139627-39-7
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(imide derivative as therapeutic agent for senile dementia)
RN 139627-39-7 HCAPLUS
CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)-rel-(--)- (9CI) (CA INDEX NAME)

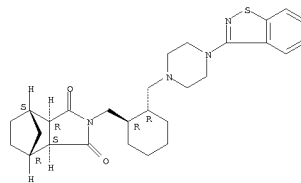
Rotation (-). Absolute stereochemistry unknown.



RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

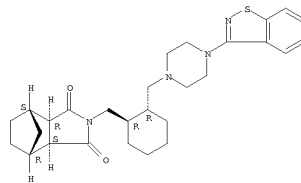
Absolute stereochemistry.



● HCl

IT 367514-87-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(crystallization of benzisothiazolylpiperazinylmethylcyclohexylmethylcycloheptanedicarboxyimide hydrochloride)
RN 367514-87-2 HCAPLUS
CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

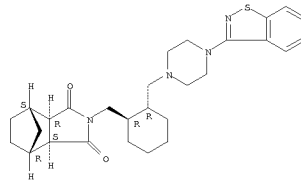
L18 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2004:182710 HCAPLUS
DN 140:210810
TI Remedy for integration dysfunction syndrome
IN Nakamura, Mitsutaka; Ogasa, Masaaki; Sami, Shunsuke
PA Sumitomo Pharmaceuticals Company, Limited, Japan
SO PCT Int. Appl., 23 pp.
CODEN: PIXX22
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2004017973	A1	20040304	2003WO-JP10490	20030820
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TE, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
FW: BW, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TE, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
AE, BY, BG, CZ, DE, DK, ES, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU2003257589	A1	20040311	2003AU-0257589	20030820
EP-----1535616	A1	20050601	2003EP-0792731	20030820
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US2006025422	A1	20060202	2005US-0525021	20050218
PRAI 2002US-404927P	P	20020822		
2003WO-JP10490	W	20030820		

AB It is intended to provide a novel method of treating integration dysfunction syndrome. Namely, 5 mg to 120 mg/day of an active compound (1R,2S,3R,4S)-N-[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]-1-cyclohexylmethyl]-2,3-bicyclo[2.2.1]heptane dicarboxyimide or its pharmaceutically acceptable salt (for example, hydrochloride) is orally administered to a patient with integration dysfunction syndrome once a day. According to this method, broad symptoms of integration dysfunction syndrome, in particular, pos. symptoms and neg. symptoms, can be ameliorated without causing any extrapyramidal reactions.

IT 367514-88-3
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(remedy for integration dysfunction syndrome)
RN 367514-88-3 HCAPLUS
CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.



● HCl

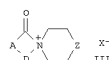
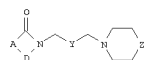
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L18 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN

AN 2003:424505 HCAPLUS
 DN 139:6890
 TI Preparation of imides as intermediates for psychotropic agents
 IN Kiyoshima, Toshiro; Bando, Hisashi
 PA Sumitomo Chemical Co., Ltd., Japan; Sumitomo
 Pharmaceuticals Co., Ltd.
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKKXAP
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP2003160583	A	20030602	2001JP-0360426	20011127
PRAI 2001JP-0360426				
OS MARPAT 139:6890				
GI				



AB Imides I [A = (un)substituted C2-4 alkylene, (un)substituted C2-4 alkenylene; D = CO, SO₂; Y = (un)substituted C1-2 alkylene; Z = (un)substituted CH₂, (un)substituted NH], useful for psychotropic agents for treatment of schizophrenia, manic-depressive psychosis, neuropathy, etc., are prepared by treatment of imides II (A, D = same as above) with quaternary ammonium salts III (Y, Z = same as above; X⁻ = anion) in the presence of solid inorg. bases and H₂O in aromatic hydrocarbon solvents. Thus, MePh solution of 4'-(1,2-benzisothiazol-3-yl)-[3aR,7aR]-octahydro-epi[2H-1H-isindole-2,3'-piperazinum] methanesulfonate was refluxed with hexahydro-(3aS,4R,7S,7aR)-4,7-methano-1H-isindole-1,3(2H)-dione, K₂CO₃, and H₂O for 2 h to give 83% 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-(3aS,4R,7S,7aR)-4,7-methano-1H-isindole-1,3(2H)-dione].

IT 367514-87-2P 535933-87-0P, N-[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-4,7-methano-1H-isindole-1,3(2H)-dione

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

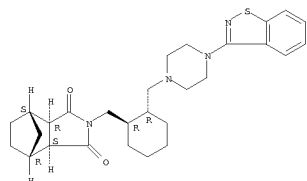
(preparation of imides as intermediates for psychotropic agents in presence of solid inorg. bases and water)

RN 367514-87-2 HCAPLUS

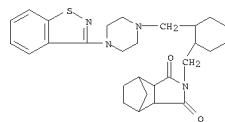
CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 535933-87-0 HCAPLUS
 CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro- (CA INDEX NAME)



L18 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN

AN 2002:240535 HCAPLUS
 DN 136:268164
 TI Oral compositions with favorable disintegration characteristics
 IN Fujihara, Kazuyuki
 PA Sumitomo Pharmaceuticals Company, Limited, Japan
 SO PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2002024166	A1	20020328	2001WO-IP07983	20010914
W:	AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, GU, HD, IL, IN, IS, JP, KE, KG, KN, KR, LC, LG, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TG, UA, UG, US, UZ, VN, YU, ZA, ZW			
FW:	GH, GM, KE, LG, MW, ME, SD, SL, SE, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU-200186237	A	20020402	2001AU-0086237	20010914
CA-2424001	A1	20030320	2001CA-2424001	20010914
EP-1327440	A1	20030716	2001EP-0965637	20010914
R:	AZ, BE, CH, DE, DK, ES, FR, GB, GR, IE, IL, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US2004028741	A1	20040212	2003US-0381036	20030321
PRAI 2000JP-0288234	A	20000922		
2001WO-IP07983	W	20010914		

AB Disclosed are oral compns. containing a hardly water-soluble active ingredient and having favorable disintegration characteristics which comprise a molded solid article (for example, granules) obtained by mixing the hardly water-soluble active ingredient, a first disintegrating agent and a water-soluble filler with the use of a water-soluble polymer binder and then mixing this molded solid article with a second disintegrating agent, or a molded solid article obtained by mixing the hardly water-soluble active ingredient, a disintegrating agent and a sugar alc. with the use of a water-soluble polymer binder. When orally administered, these preps. show excellent elution of the active ingredient in the digestive tract. Moreover, these preps. can show the same elution behavior at different contents of the active ingredient and thus enable the selection of the most suitable drug for each patient, which makes these preps. highly useful in clin. medicine. A film-coated tablet was prepared from granules containing N-[4-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]-(2R,3R)-2,3-tetramethylene-butyl]-[1'R,2'S,3'R,4'S]-2,3-bicyclo[2.2.1]heptanedicarboxylic acid hydrochloride 10, lactose 50, sodium croscarmellose 4 mg, and polyvinyl alc. 1.2 mg, calcium hydrogen phosphate anhydride 35, crystalline cellulose 17, and magnesium stearate 0.8 mg, and a coating material containing hydroxypropyl Me cellulose 1.95, titanium oxide 0.6, concentrate glycerin 0.45 mg, and carnauba wax q.s.

IT 367514-88-3

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

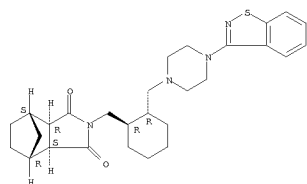
(oral compns. with favorable disintegration characteristics containing hardly water-soluble active ingredients)

RN 367514-88-3 HCAPLUS

CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



● HCl

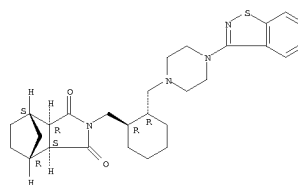
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN

AN 2001:762782 HCAPLUS
DN 135:322722
TI Coating agents for sustained-release oral preparations containing basic drugs
IN Nishii, Hiroyuki; Kobayashi, Hirohisa; Otsuda, Kazuya
PA Sumitomo Pharmaceuticals Co., Ltd., Japan
SO PCT Int. Appl., 20 pp.
CODEN: PIXX32
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2001076557	A1	20011018	2001WO-JP03024	20010409
W: AE, AG, AL, AM, AT, AU, AZ, BA, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NO, NL, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MM, MG, SD, SL, SE, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI 2000JP-0107671	A	20000410		
AB Disclosed are pH-independent sustained release preps. capable of releasing a drug independently from the pH value in the gastric tract. These sustained release preps. are characterized in that a drug-containing core is coated with (1) a first layer made of a water-insol. polymer, and (2) a second layer made of an enteric polymer and a water-soluble polymer. Core granules were prepared containing perospirone-HCl, crystalline cellulose, PVP, starch and silica. The granules were coated with a first composition containing Et cellulose, talc, tri-Et citrate, ethanol, and water, and then a second composition containing methacrylate copolymer, PVP, sucrose ester, Macrogol 6000, and water.				
IT 367514-87-2		367514-88-3		
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (polymeric coating agents for sustained-release oral preps. containing basic drugs)				
RN 367514-87-2	HCAPLUS			
CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)-	(CA INDEX NAME)			

Absolute stereochemistry.

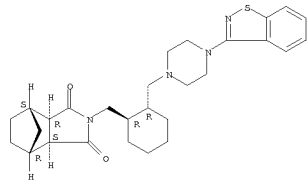


RN 367514-88-3 HCAPLUS

CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



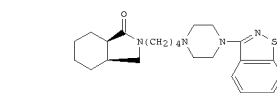
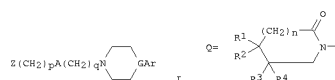
● HCl

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN

AN 1996:462314 HCAPLUS
DN 125:142768
TI Preparation of heterocycle-containing lactam derivatives as psychotropics
IN Kojima, Atsuyuki; Antoku, Fujio; Yoshigi, Mayumi; Tanno, Norihiko; Mishihiro, Toshio; Toyoda, Tomohiro; Ohno, Yukihiko
PA Sumitomo Pharmaceuticals Company, Limited, Japan
SO PCT Int. Appl., 39 pp.
CODEN: PIXX32
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO----9614297	A1	19960517	1995WO-JP02256	19951106
W: JP, US R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE JP----3948744 B2 20070725 1996JP-0515196 19951106				
PRAI 1994JP-0295601	A	19941104		
OS 1995WO-JP02256	W	19951106		
GI MARPAT 125:142768				



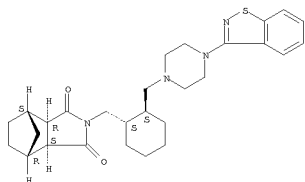
AB Lactam derivs. represented by general formula [I; R₁, R₂, R₃, R₄ = H or lower alkyl, provided a pair of R₁ and R₂, R₃ and R₄, R₁ and R₃, or R₂ and R₄ may form a hydrocarbon ring which may be bridged with lower alkylene or oxygen, and the lower alkylene and the hydrocarbon ring may be substituted by at least one alkyl group; n = 0 or 1; A = lower alkylene, lower alkenylene or a hydrocarbon ring which may be bridged with lower alkylene (which may be substituted by at least one alkyl or hydroxy group) or oxygen, and the lower alkylene, the lower alkenylene and the hydrocarbon ring may be each substituted by at least one alkyl or hydroxy group; p, q = 0, 1 or 2; G = H or CH and Ar = heteroaryl or aromatic hydrocarbon group, or alternatively G = CH and Ar = phenoxy, provided the heteroaryl group, the aromatic hydrocarbon group and the phenoxy group may be each substituted by at least one lower alkyl, lower alkoxy or halogenol or acid-addition salts thereof, which have excellent characteristics as psychotropic drugs, and being useful for treating schizophrenia, senile psychosis, manic depressive psychosis, neurosis, and so forth, are prepared. Thus, (1R,2S)-N-[4-(4-[[[(1,2-benzisothiazol-3-yl)-1-piperazinyl]butyl]-1,2-cyclohexanedicarboxyimide was reduced by LiAlH₄ in THF and then by Et₃Si in a mixture of CH₃CO₂H and CH₂Cl₂ to give the title compound (II). II in vitro inhibited 80% the binding of dopamine D₂ receptor ligand, [3H]raclopride, to rat extrapyramidal membrane and 81% the binding of serotonin 5-HT₂ receptor ligand, [3H]ketanserin, to rat whole brain membrane fraction (excluding cerebellum), and showed K_i of 0.73 nM for inhibiting the binding of dopamine D₄ receptor ligand, [3H]spiperone, to human D₄-expressing CHO cell membrane fraction.

IT 139505-45-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of heterocycle-containing lactam derivs. as psychotropics)

RN 139505-45-6 HCAPLUS
CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-

L18 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 RN 1992:151794 HCAPLUS
 DN 116:151794
 TI Preparation of [[[(carboximidomethyl)cycloalkyl]methyl]aziryl]arenes as
 antipsychotics
 IN Saji, Ikutaro; Muto, Masayuki; Tanno, Norihiko; Yoshigi, Mayumi
 PA Sumitomo Pharmaceuticals Co., Ltd., Japan
 SO Eur. Pat. Appl., 67 pp.
 COCEN: EPKXDW

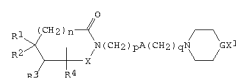
Relative stereochemistry.



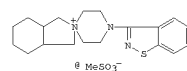
L18 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN
 RN 1992:151794 HCAPLUS
 DN 116:151794
 TI Preparation of [[[(carboximidomethyl)cycloalkyl]methyl]aziryl]arenes as
 antipsychotics
 IN Saji, Ikutaro; Muto, Masayuki; Tanno, Norihiko; Yoshigi, Mayumi
 PA Sumitomo Pharmaceuticals Co., Ltd., Japan
 SO Eur. Pat. Appl., 67 pp.
 COCEN: EPKXDW
 DT Patent
 LA English
 FAH.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP-----464846	A1	19920108	1991EP-011223	19910705
EP-----464846	B1	19980422		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP--05017440	A	19930126	1991JP-0183640	19910627
JP--2800953	B2	19980921		
CA--2046429	A1	19920107	1991CA-2046429	19910705
CA--2046429	C	20030916		
AT--165359	T	19980515	1991AT-011223	19910705
ES--215599	T3	19980703	1991ES-011223	19910705
US--5532372	A	19960702	1993US-0113320	19930830
US--5780632	A	19980714	1996US-0634738	19960418
PRAI 1996JP-0180271	A	19900706		
1991US-0726172	B1	19910705		
1993US-0113320	A3	19930830		
CASREACT 116:151794; MARPAT 116:151794				

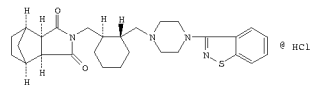
OS
GI



I



II

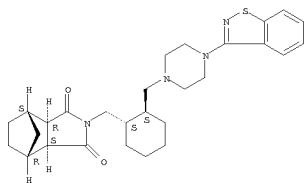


III

AB Title compds. [I: R1-R4 = H, alkyl; R1R2 = nonarom. hydrocarbylene; R1R3 = (aromatic) (substituted) (bridged) hydrocarbylene; X = CO, SO2; n = 0, 1; A = (substituted) (bridged) nonarom. hydrocarbon ring; p, q = 0-2; X1 = (hetero)aryl, PhCO, PhO, PhS, and G = N, CH, COH; or X1 = biphenylmethylene, G = C] were prepared. Thus, spiro derivative II (preparation from trans-1,2-cyclohexanecarboxylic anhydride given) was refluxed with bicyclo[2.2.1]heptane-2-exo-3-exo-dicarboximide, K2CO3, and dibenzyl-18-crown-6 in DMF to give title compound III. III showed ED50 of 10.3 mg/kg orally for suppression of apomorphine-induced climbing behavior in mice.
 IT 139505-45-6P 139563-18-1P 139563-20-5P
 139563-21-6P 139563-24-9P 139563-25-0P

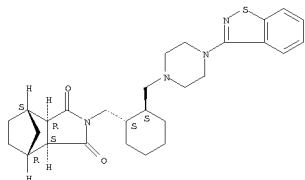
L18 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 RN 139563-29-4P 139627-39-7P 139627-40-0P
 194861-74-0P 194861-82-0P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USGS (Uses)
 (prepn. of, as antipsychotic)
 RN 139505-45-6 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, monohydrochloride, (3aR,4S,7R,7aS)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 139563-18-1 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, monohydrochloride, [2(trans),3aa,4β,7β,7aa]-(+)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)

Relative stereochemistry.



● HCl

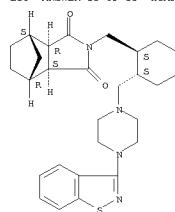
RN 139563-20-5 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, monohydrochloride, [2(trans),3aa,4β,7β,7aa]-(+)-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 139563-19-2
 CMF C28 H36 N4 O2 S

Rotation (+). Absolute stereochemistry unknown.

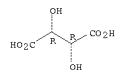
L18 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CM 2

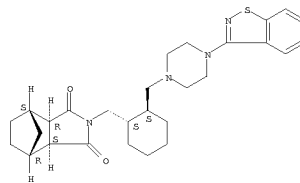
CRN 87-69-4
 CMF C4 H6 O6

Absolute stereochemistry.



RN 139563-21-6 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, monohydrochloride, [2(trans),3aa,4β,7β,7aa]-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.

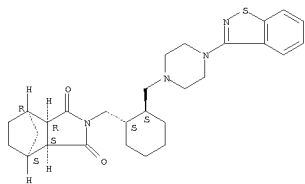


● HCl

RN 139563-24-9 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, monohydrochloride, [2(1R*,2R*),3aa,4a,7a,7aa]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

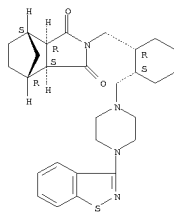
L18 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



● HCl

RN 139563-25-0 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, monohydrochloride, (2(1R*,2S*),3aa,4β,7β,7aa)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

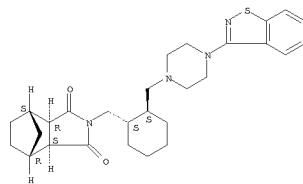


● HCl

RN 139563-29-4 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, monohydrochloride, (2(trans),3aa,4β,7β,7aa)-(-)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.

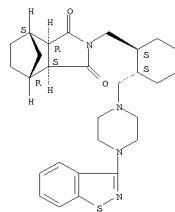
L18 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



● HCl

RN 139627-39-7 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)-rel-(-)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



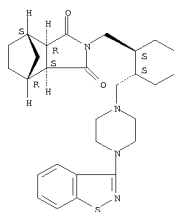
RN 139627-40-0 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)-rel-(-)- (2S,3S)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CPN 139627-39-7
 CMF C28 H36 N4 O2 S

Rotation (-). Absolute stereochemistry unknown.

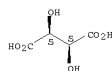
L18 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CM 2

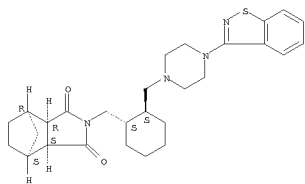
CPN 147-71-7
 CMF C4 H6 O6

Absolute stereochemistry.



RN 194861-74-0 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (2(1R*,2R*),3aa,4a,7a,7aa)- (9CI) (CA INDEX NAME)

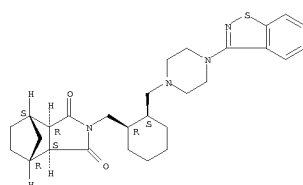
Relative stereochemistry.



RN 194861-82-0 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (2(1R*,2S*),3aa,4β,7β,7aa)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L18 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



=> d bib abs hitstr 119 tot

L19 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1363699 HCAPLUS
 DN 148:24465
 TI Melatonin agonist and antipsychotic agent combinations for treatment of
 insomnia
 IN Polymeropoulos, Michael H.; Wolfgang, Curt D.; Birnieks, Gunther; Phadke,
 Deepak
 PA Vanda Pharmaceuticals, Inc., USA
 SO PCT Int. Appl., 20pp.
 CODEN: PXXXX2
 DT Patent
 LA English
 FAN.CNT 1

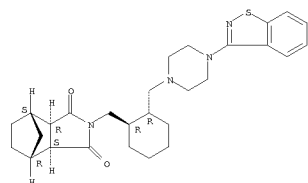
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2007137224	A2	200711129	2007MO-US69366	20070521
W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CE, DE, DK, DM, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VE, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SS, TZ, UG, ZM, ZW, AM, AS, BY, KG, KZ, MD, RU, TJ, TM				

PRAI 2006US-747066P P 20060522
 AB Disclosed are combinations and combination therapies for the treatment of
 insomnia in patients with psychotic disorders or with psychotic features,
 patients with bipolar depression, and patients with major depression with
 psychotic features.

IT 367514-88-3, SM-13496 367514-88-3D,
 SM-13496, metabolites
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (melatonin agonist and antipsychotic agent combinations for treatment
 of insomnia)

RN 367514-88-3 HCAPLUS
 CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-
 benzisothiazol-3-yl)-1-piperazinylmethyl]cyclohexylmethyl]hexahydro-
 hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.



● HCl

RN 367514-88-3 HCAPLUS
 CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-
 benzisothiazol-3-yl)-1-piperazinylmethyl]cyclohexylmethyl]hexahydro-
 hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

L19 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1277443 HCAPLUS
 DN 147:515074
 TI Escitalopram for improving diminished cognition processes
 IN Svensson, Hans Torngny
 PA H. Lundbeck A/S, Den.
 SO PCT Int. Appl., 24pp.
 CODEN: PXXXX2
 DT Patent
 LA English
 FAN.CNT 1

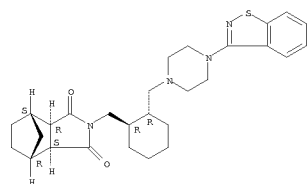
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2007124757	A2	200711108	2007MO-DK50050	20070430
W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CE, DE, DK, DM, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VE, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SS, TZ, UG, ZM, ZW, AM, AS, BY, KG, KZ, MD, RU, TJ, TM				

PRAI 2006DK-0000621 A 20060502
 AB The invention relates to the use of the compound escitalopram (INN-name),
 i.e. (S)-1-[3-(dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5-
 isobenzofuranecarbonitrile, or a pharmaceutically acceptable salt thereof
 for the preparation of a medicament for improving cognition in a condition
 where the cognitive processes are diminished.

IT 367514-87-2, Lurasidone
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (escitalopram for improving diminished cognitive processes)

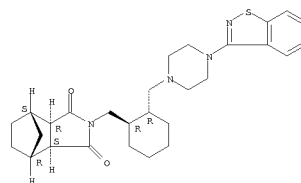
RN 367514-87-2 HCAPLUS
 CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-
 benzisothiazol-3-yl)-1-piperazinylmethyl]cyclohexylmethyl]hexahydro-
 (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.

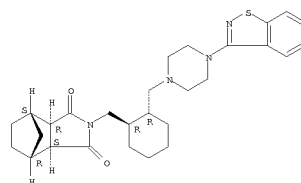


● HCl

L19 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1270852 HCAPLUS
 DN 147:496359
 TI Use of escitalopram for improvement of cognition in a condition where the
 cognitive processes are diminished
 IN Svensson, Hans Torngny
 PA H. Lundbeck A/S, Den.
 SO U.S. Pat. Appl. Publ., 11pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US2007259952	A1	200711108	2007US-0741371	20070427
PRAI 2006US-746238P	P	20060502		
AB The invention discloses the use of the compound escitalopram (INN-name), i.e. (S)-1-[3-(dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5- isobenzofuranecarbonitrile, or a pharmaceutically acceptable salt thereof for the preparation of a medicament for improving cognition in a condition where the cognitive processes are diminished.				
IT 367514-87-2, Lurasidone				
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (escitalopram for improvement of cognition in condition with diminished cognitive processes)				
RN 367514-87-2 HCAPLUS				
CN 4,7-Methano-1H-isindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2- benzisothiazol-3-yl)-1-piperazinylmethyl]cyclohexylmethyl]hexahydro- (3aR,4S,7R,7aS)- (CA INDEX NAME)				

Absolute stereochemistry.



L19 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:950847 HCAPLUS
DN 145:1342440

TI Pharmaceutical compositions for the treatment and/or prevention of
schizophrenia and related diseases
IN Pyke, Robert; Ceci, Angelo
DA Boehringer Ingelheim International GmbH, Germany; Boehringer Ingelheim
Pharma GmbH & Co KG
SO PCT Int. Appl., 30pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2006096439	A2	20060914	2006WO-US07379	20060227
WO2006096439	A3	20070208		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CE, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, ME, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RD, RU, SC, SD, SE, SG, SH, SI, SM, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
PW:	AT, BE, BG, CH, CY, CE, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, ME, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
CA-----2599699	A1	20060914	2006CA-2599699	20060228
US2006204486	A1	20060914	2006US-0364306	20060228
EP-----1858517	A2	20071128	2006EP-0736660	20060228
R:	AT, BE, BG, CH, CY, CE, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RD, SE, SI, SK, TR			
PRAI 2005US-658566P	P	20050304		
2006WO-US07379	W	20060227		

AB The invention relates to new pharmaceutical comps. for the treatment and/or prevention of schizophrenia and methods for the preparation thereof. In a preferred embodiment, the instant invention is directed to pharmaceutical combinations comprising flibanserin as one active ingredient in combination with at least one addnl. active ingredient for the treatment and/or prevention of schizophrenia and methods for the preparation thereof.

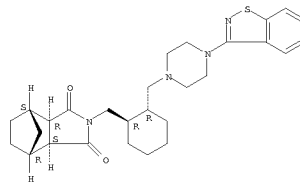
IT 367514-87-2, Lurasidone 367514-88-3, SM 13496
RI: PEP (Physical, engineering or chemical process); PUP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(flibanserin comps. for the treatment and/or prevention of schizophrenia and related diseases)

RN 367514-87-2 HCAPLUS
CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)- (CA INDEX NAME)

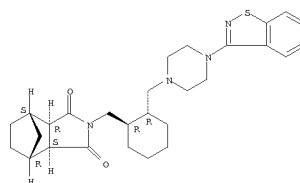
Absolute stereochemistry.

L19 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 367514-88-3 HCAPLUS
CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.



● HCl

L19 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:918625 HCAPLUS
DN 145:315008

TI Preparation of spiro[cyclohexane-1,4'-quinazoline] derivatives for use as
PDE7 inhibitors for the treatment of neuropathic pain
IN Cox, Peter; Kinloch, Ross Anderson; Maw, Graham Nigel
DA Pfizer limited, UK
SO PCT Int. Appl., 108pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2006092691	A1	20060908	2006WO-IB00369	20060216
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CE, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, ME, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RD, RU, SC, SD, SE, SG, SH, SI, SM, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
PW:	AT, BE, BG, CH, CY, CE, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, LV, MC, NL, PL, PT, RD, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, ME, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU2006219642	A1	20060908	2006AU-0219643	20060216
CA-----2599662	A1	20060908	2006CA-2599662	20060216
EP-----1855666	A1	20071121	2006EP-0710434	20060216
R:	AT, BE, BG, CH, CY, CE, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RD, SE, SI, SK, TR			
JPO2006241159	A	20060914	2006JP-0053415	20060228
KR2007107099	A	20071106	2007KR-0720010	20070831
IN2007DN07221	A	20071012	2007IN-DN07221	20070919
PRAI 2005GB-0004209	A	20050301		
2005US-675761P	P	20050427		
2006WO-1800369	W	20060216		
OS MARPAT 145:315008				
GI				

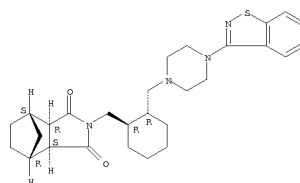
L19 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

in the manuf. of a medicament for the treatment of neuropathic pain and to a method of treating neuropathic pain using an inhibitor of PDE7. Methods for prepp. title compds. are given. Thus, e.g., IV was prepd. by substitution of trans-3-[(benzyloxy)methyl]cyclobutyl p-toluenesulfonate (prepn. given) with 8'-chloro-5'-hydroxy-1'H-spiro[cyclohexane-1,4'-quinazolin]-2'-(3'H)-one followed by deprotection and oxidn. In PDE7A inhibition assays, IV demonstrated a Ki value of 1.9 (nM).

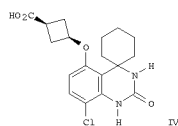
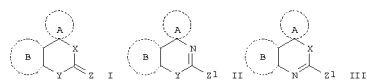
IT 367514-87-2, Lurasidone
RI: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(phosphodiesterase 7 inhibiting comps. useful in treatment of neuropathic pain)

RN 367514-87-2 HCAPLUS
CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

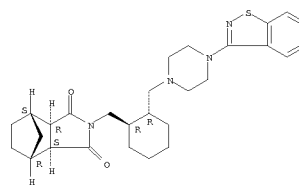


AB Comps. I-III (Ring B = (un)substituted six-membered aryl or heteroaryl ring; Ring A = (un)substituted spirocyclo or spiroheterocyclo; X = O or NH, NNH2, etc.; Y = O, S, NH, etc.; Z = CHNO2, O, S, etc.; Z1 = H, Me, NH2, etc.) are disclosed as phosphodiesterase 7 (PDE7) inhibitors for use

L19 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 AN 2005:474936 HCAPLUS
 DN 143:1317
 TI Method of treating mental disorders using D4 and 5-HT2A antagonists,
 inverse agonists or partial agonists
 IN Buntink, Erik
 PA Belg.
 SO U.S. Pat. Appl. Publ., 14 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 6

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US2005119253	A1	20050602	2004US-0725965	20041202
US2005119248	A1	20050602	2004US-0752423	20040106
US2005119249	A1	20050602	2004US-0803793	20040318
US2005203130	A1	20050915	2004US-0984683	20041109
CA---2547639	A1	20050616	2004CA-2547639	20041202
WO2005053796	A1	20050616	2004WO-BE00172	20041202
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GM, GH, KE, LS, MW, MZ, NA, SD, SL, SE, TZ, UG, ZM, ZW, AM, AZ, BY, EG, KE, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP----1708790	A1	20061011	2004EP-0801138	20041202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, IL, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
JP2007513095	T	20070524	2006JP-0541759	20041202
US2007078162	A1	20070405	2006US-0580962	20060531
PRAI 2003CA-2451798	A	20031202		
2003EP-0447279	A	20031202		
2003US-0725965	A2	20031202		
2004EP-0447001	A	20040105		
2004US-0752423	A2	20040106		
2004CA-2461248	A	20040318		
2004EP-0447066	A	20040318		
2004US-0803793	A2	20040318		
2004EP-0025035	A	20041021		
2004JP-0349085	A	20041104		
2004US-0984683	A	20041109		
2004CA-2487529	A	20041115		
2004WO-BE00172	M	20041202		
AB The present invention relates to methods of treating the underlying dysregulation of the emotional functionality of mental disorders (i.e. affect instability-hypersensitivity-hyperaesthesia-dissociative phenomena...) using compds. and compns. of compds. having D4 and/or 5-HT2A antagonistic, partial agonistic or inverse agonistic activity. The invention also relates to methods comprising administering to a patient diagnosed as having a neuropsychiatric disorder a pharmaceutical composition containing (i) compds. having D4 antagonistic, partial agonistic or inverse agonistic activity and/or (ii) compds. having 5-HT2A antagonistic, partial agonistic or inverse agonistic, and/or (iii) any known medicinal compound and compns. of said compds. The combined D4 and 5-HT2A antagonistic, partial agonistic or inverse agonistic effects may reside within the same chemical or biol. compound or in two different chemical and/or biol. compds. The combination can also be used to augment the therapeutic effect of or to provide a faster onset of the therapeutic effect of a selective serotonin re-uptake inhibitor, a norepinephrine re-uptake inhibitor, or a musculoskeletal disease-treating COX-2 inhibitor. Pharmaceutical compns. are also claimed.				
IT 367514-88-3, SM 13496				
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				

L19 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 (as neuroleptic agent, augmenting therapeutic effect of; treating underlying dysregulation of emotional functionality of mental disorders using D4 and 5-HT2A antagonists, inverse agonists or partial agonists)
 PN 367514-88-3 HCAPLUS
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)
 Absolute stereochemistry.

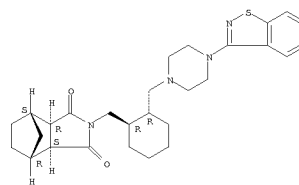


● HCl

L19 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 AN 2005:474936 HCAPLUS
 DN 143:1315
 TI Method of treating mental disorders using D4 and 5-HT2A antagonists,
 inverse agonists or partial agonists
 IN Buntink, Erik
 PA Belg.
 SO U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 725,965.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 6

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US2005119248	A1	20050602	2004US-0752423	20040106
US2005119253	A1	20050602	2003US-0725965	20031202
US2005119249	A1	20050602	2004US-0803793	20040318
US2005203130	A1	20050915	2004US-0984683	20041109
CA---2547639	A1	20050616	2004CA-2547639	20041202
WO2005053796	A1	20050616	2004WO-BE00172	20041202
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GM, GH, KE, LS, MW, MZ, NA, SD, SL, SE, TZ, UG, ZM, ZW, AM, AZ, BY, EG, KE, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP----1708790	A1	20061011	2004EP-0801138	20041202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, IL, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
JP2007513095	T	20070524	2006JP-0541759	20041202
US2007078162	A1	20070405	2006US-0580962	20060531
PRAI 2003US-0725965	A2	20031202		
2003CA-2451798	A	20031202		
2003EP-0447279	A	20031202		
2004EP-0447001	A	20040105		
2004US-0752423	A2	20040106		
2004CA-2461248	A	20040318		
2004EP-0447066	A	20040318		
2004US-0803793	A2	20040318		
2004EP-0025035	A	20041021		
2004JP-0349085	A	20041104		
2004US-0984683	A	20041109		
2004CA-2487529	A	20041115		
2004WO-BE00172	M	20041202		
AB The present invention relates to methods of treating the underlying dysregulation of the emotional functionality of mental disorders (i.e. affect instability-hypersensitivity-hyperaesthesia-dissociative phenomena...) using compds. and compns. of compds. having D4 and/or 5-HT2A antagonistic, partial agonistic or inverse agonistic activity. The invention also relates to methods comprising administering to a patient diagnosed as having a neuropsychiatric disorder a pharmaceutical composition containing (i) compds. having D4 antagonistic, partial agonistic or inverse agonistic activity and/or (ii) compds. having 5-HT2A antagonistic, partial agonistic or inverse agonistic, and/or (iii) any known medicinal compound and compns. of said compds. The combined D4 and 5-HT2A antagonistic, partial agonistic or inverse agonistic effects may reside within the same chemical or biol. compound or in two different chemical and/or biol. compds. The combination can also be used to augment the therapeutic effect of or to provide a faster onset of the therapeutic effect of a selective serotonin re-uptake inhibitor, a norepinephrine re-uptake inhibitor, an NGF antagonist, or a musculoskeletal disease-treating COX-2 inhibitor. Pharmaceutical compns. are also claimed.				
IT 367514-88-3, SM 13496				
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
(as neuroleptic agent, augmenting therapeutic effect of; treating underlying dysregulation of emotional functionality of mental disorders using D4 and 5-HT2A antagonists, inverse agonists or partial agonists)				
PN 367514-88-3 HCAPLUS				

L19 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 CN 4,7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)
 Absolute stereochemistry.



● HCl

L19 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2008 ACS on SIN
 AN 2003:637455 HCAPLUS
 DN 139:159958
 TI Valproate compound-atypical antipsychotic agent combination therapy for treatment of schizophrenia
 IN Somerville, Kenneth W.; Gilbert, Adrienne L.; Tracy, Katherine A.
 PA Abbott Laboratories, USA
 SO PCT Int. Appl., 39 pp.
 CUDEN: PFX032
 DT Patent
 LA English
 FAN.CNT 1

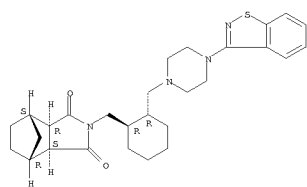
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2003066039	A1	20030814	2003WO-US02540	20030129
W: CA, JP, MX				
RM: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
CA-----2475839	A1	20030814	2003CA-2475839	20030129
EP-----1480629	A1	20041201	2003EP-0737557	20030129
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, CY, TR, BG, CZ, EE, HU, SK				
JP2006505489	T	20060218	2003JP-0565463	20030129
MX2004PA07752	A	20050617	2004MX-PA07752	20040809
PRAI 2002US-0071733	A	20020208		
2003WO-US02540	W	20030129		

AB The invention discloses a treatment for schizophrenia. It has been discovered that schizophrenia will respond to the combination of an atypical antipsychotic, e.g. olanzapine, and a valproate compound, e.g. divalproex sodium. This combination is especially useful for alleviating the acute symptoms of schizophrenia. The invention also extends to new formulations containing an antipsychotic in combination with a valproate compound

II 367514-88-3, SM-13496
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (valproate compound-atypical antipsychotic agent combination therapy for treatment of schizophrenia)

RN 367514-88-3 HCAPLUS
 CN 4, 7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.



● HCl

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2008 ACS on SIN
 AN 2002:521465 HCAPLUS
 DN 137:98994
 TI Pharmaceuticals containing a combination of norepinephrine reuptake inhibitors and neuroleptics
 IN Wong, Erik Ho Fong; Gallen, Christopher C.; Svensson, Torngy
 PA Pharmacia & Upjohn Company, USA; Pharmacia AB
 SO PCT Int. Appl., 22 pp.
 CUDEN: PFX032
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2002053140	A2	20020711	2001WO-US45871	20011227
WO2002053140	A3	20021024		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KS, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, VE, VN, YU, ZA, ZM, ZW				
RM: GH, GM, KE, LS, MW, MD, SD, SH, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA-----2431041	A1	20020711	2001CA-2431041	20011227
AU2002232470	A1	20020716	2002AU-0232470	20011227
EP-----1353675	A2	20031022	2001EP-0991997	20011227
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP2004517112	T	20040610	2002JP-0554091	20011227
NZ-----526801	A	20050729	2001NZ-0526801	20011227
US2002156067	A1	20021024	2001US-0035100	20011228
US-----6964962	B2	20051115		
MX2003PA06003	A	20050908	2003MX-PA06003	20030702
US2006003992	A1	20060105	2005US-0219901	20050906
PRAI 2001US-259286P	P	20010102		
2001WO-US45871	W	20011227		
2001US-0035100	AJ	20011228		

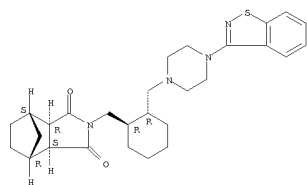
AB A composition comprising: (a) a pharmaceutically effective amount of one or more norepinephrine reuptake inhibitors or a salt; and (b) 1 or more neuroleptics is provided. The composition is useful in treating disorders or diseases of the central nervous system, and particularly useful in treating schizophrenia. A pharmaceutical composition was prepared by combining reboxetine with a neuroleptic in an acceptable carrier. The composition contains 0.01-10 mg reboxetine and 25-300 mg clozapine.

II 367514-88-3
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmaceuticals containing combination of norepinephrine reuptake inhibitors and neuroleptics)

RN 367514-88-3 HCAPLUS
 CN 4, 7-Methano-1H-isoindole-1,3(2H)-dione, 2-[[[(1R,2R)-2-[[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]methyl]cyclohexyl]methyl]hexahydro-, hydrochloride (1:1), (3aR,4S,7R,7aS)- (CA INDEX NAME)

Absolute stereochemistry.

L19 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)



● HCl

=> d his

(FILE 'HOME' ENTERED AT 10:50:54 ON 09 JAN 2008)

FILE 'HCAPLUS' ENTERED AT 10:51:04 ON 09 JAN 2008

L1 1 US20060194970/PN

FILE 'REGISTRY' ENTERED AT 10:51:34 ON 09 JAN 2008

FILE 'HCAPLUS' ENTERED AT 10:51:34 ON 09 JAN 2008

L2 TRA L1 1- RN : 8 TERMS

FILE 'REGISTRY' ENTERED AT 10:51:34 ON 09 JAN 2008

L3 8 SEA L2

L4 218 C28H36N4O2S

L5 17 L4 AND NSC3-C6/ES

L6 2 L4 AND L3

L7 15 NC4-C5-C5/ES AND L5

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L8 23 L7

L9 9 LURASIDON#

L10 8 LURASIDON# (1A) HYDROCHLORID? OR SM 13496 OR SM13496

L11 5 L8-10 (L) PREP+NT/RL

L12 24 L8-11

E KAKIYA Y/AU

L13 6 E3,E6-7

E KAKIYA N/AU

E ODA M/AU

L14 287 E3-4

E ODA MAYUMI/AU

L15 24 E3-4

E ODA N/AU

L16 23 E18

E YUZO K/AU

E YUZO N/AU

E MAYUMI O/AU

E MAYUMI N/AU

L17 142046 (DAINIPPON OR SUMITOMO OR DAI (1A) NIPPON)/PA,CS

L18 15 L12 AND L13-17

L19 9 L12 NOT L18

FILE 'HCAOLD' ENTERED AT 11:36:32 ON 09 JAN 2008

L20 0 L7

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